

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

BAEK, Seung-Nam

401 Keunyoung Building 735-32 Yeoksam-Dong, Kangnam-
Ku Seoul 135-080, Republic of Korea

PCT

REC'D 30 MAR 2005

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing

(day/month/year)

21 MARCH 2005 (21.03.2005)

Applicant's or agent's file reference.

PO333

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2004/003186

International filing date (day/month/year)

06 DECEMBER 2004 (06.12.2004)

Priority date(day/month/year)

07 JANUARY 2004 (07.01.2004)

International Patent Classification (IPC) or both national classification and IPC

IPC: B42C 1/00, G03G 15/00

Applicant

KRDC CO., LTD. et al.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

JANG, Man Cheol

Telephone No. 82-42-481-5416



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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/003186

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/003186

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-13	YES
	Claims		NO
Inventive step (IS)	Claims	1-13	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-13	YES
	Claims		NO

2. Citations and explanations :

1. Citations

D3: JP-A-11-106122 (20 April 1999)

- D4: KR-A-2004-88199 (16 October 2004)

2. Novelty

(1) The invention of claim 1 of the present application relates to a tape supplier comprising a tape cassette (156), a first rotating shaft (91) for supporting a tape roll, second and third rotating shafts (92, 93) for winding a separating sheet, a tape discharge roller assembly (95) for discharging a tape, and a driving device for driving the first, second, and third rotating shafts.

(2) Claims 2-9 add technical features including idle roller shafts (94a, 94b) to the invention of claim 1.

(3) The invention of claim 10 relates to a refill cartridge for the tape supplier of claim 1.

(4) Claims 11-13 add technical features including a sensor (16) for sensing the discharge of the tape to the invention of claim 10.

(5) None of the cited inventions of D1-D4 are the same as the inventions of claims 1 and 10.

(4) Therefore, claims 1-13 meet the requirement of novelty (PCT Article 33(2)).

(Continued on Supplemental Sheet.)

**WRITTEN OPINION OF THE
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International application No.

PCT/KR2004/003186

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

Box V.

3. Inventive Step

- (1) Since D1-D4 disclose a binding device using a tape, a tape supplier and a tape cassette, the inventions of D1-D4 are in the same technical field as the present invention.
- (2) However, none of the documents D1-D4 teach or fairly suggest the technical features corresponding to the technical features of the present invention, that is, the first rotating shaft (91) for supporting a tape roll, the second and third rotating shafts (92, 93) for winding a separating sheet, and the driving device for driving the first, second, and third rotating shafts.
- (3) In addition, said technical features lead the present invention to have advantages of preventing defects in the tape supply of a binding apparatus and easily setting a tape supplier, which are not found in D1-D4.
- (4) Therefore, the subject matter of claims 1-13 is considered to involve an inventive step over the available prior art of D1-D4 (PCT Article 33(3)).

4. Industrial Applicability

- (1) The present invention, which relates to a binding device for binding the sheets discharged from a digital output device such as a printer, a copy machine, and a printing machine, can be industrially applicable to the binding industry.
- (2) Therefore, the present invention is considered to be industrially applicable (PCT Article 33(4)).